

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT



APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Ute Tribal 17-13					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ANTELOPE CREEK					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME ANTELOPE CREEK					
6. NAME OF OPERATOR PETROGLYPH OPERATING CO						7. OPERATOR PHONE 208 685-7685					
8. ADDRESS OF OPERATOR 960 Broadway Avenue, Ste 500, Boise, ID, 83703						9. OPERATOR E-MAIL ppowell@pgei.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1420H623513			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Indian Tribe			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP		RANGE	MERIDIAN		
LOCATION AT SURFACE		879 FSL 594 FEL		SESE	18	5.0 S		3.0 W	U		
Top of Uppermost Producing Zone		660 FSL 660 FWL		SWSW	17	5.0 S		3.0 W	U		
At Total Depth		660 FSL 660 FWL		SWSW	17	5.0 S		3.0 W	U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 594			23. NUMBER OF ACRES IN DRILLING UNIT 640					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 868			26. PROPOSED DEPTH MD: 6293 TVD: 6109					
27. ELEVATION - GROUND LEVEL 6144			28. BOND NUMBER LPM4138336			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8342					
Hole, Casing, and Cement Information											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight	
COND	20	14	0 - 54	5.0	Unknown	10.0	Class G	25	1.17	15.8	
SURF	12.25	8.625	0 - 494	24.0	J-55 ST&C	10.0	Class G	227	1.17	15.8	
PROD	7.875	5.5	0 - 6293	15.5	J-55 LT&C	10.0	Class G	472	1.92	12.5	
							Class G	351	1.46	13.4	
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Ed Trotter				TITLE Agent			PHONE 435 789-4120				
SIGNATURE				DATE 05/30/2013			EMAIL edtrotter@easilink.com				
API NUMBER ASSIGNED 43013522020000				APPROVAL <div style="text-align: center;"> Permit Manager </div>							

RECEIVED: June 10, 2013

CONFIDENTIAL
NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 17-13
SE SE, SEC 18, T5S, R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	TVD	MD
Rig KB=~14.4' above GGL		6159	0	0
Surface Formation = Uinta				
Uinta		6144	15	15
Green River		4865	1294	1300
Trona		3546	2613	2679
Mahogany Shale		3387	2772	2848
"B" Marker	Waterflood Unit Interval	2290	3869	4021
"X" Marker		1806	4353	4530
Douglas Creek Marker		1655	4504	4686
"B" Limestone		1267	4892	5077
Base Castle Peak Limestone		722	5437	5630
BSCARB		313	5846	6039
Wasatch			37	NDE
Rig TD		50	6109	6293

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground water*	Uinta	6000	159	159
Oil/Gas	Douglas Creek	1655	4504	4686
Oil/Gas	Castle Peak	722	5437	5630

Any water encountered during drilling shall be sampled, analyzed and reported to BLM, Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)	Temperature	pH	TDS
Dissolved Iron	Dissolved Magnesium	Dissolved Bicarb.	Dissolved Sulfate
Dissolved Calcium	Dissolved Sodium	Dissolved Carbonate	Dissolved Chloride

All depths through the "Base of moderately saline ground water"*, along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



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3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	54'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	494'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	6293'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 4021' MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft³/sk)
	Bottom		Vol (ft³)			
Conductor	0 ----- 54	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 ----- 494	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	227 ----- 265	30%	15.8	1.17
Production Lead	0 ----- 4021	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	472 ----- 906	30%	12.5	1.92
Production Tail	4021 ----- 6293	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	351 ----- 512	30%	13.4	1.46

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Trona at 2679' MD.



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5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

BOPE TESTING PROCEDURE:

- The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

6. MUD PROGRAM:

A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 494'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
 - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
 - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
 - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
 - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.

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B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 494' to 6293'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior DOGM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.



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7. EVALUATION PROGRAM:

Logs:	Triple Combo	TD to base of surface casing (AIT, DSN, CDL) Base of surface casing to surface (GR only)
Cores:	None planned	
DST:	None planned	
Testing:	Operator plans no testing until the completion phase of the well.	

8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1573 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient .

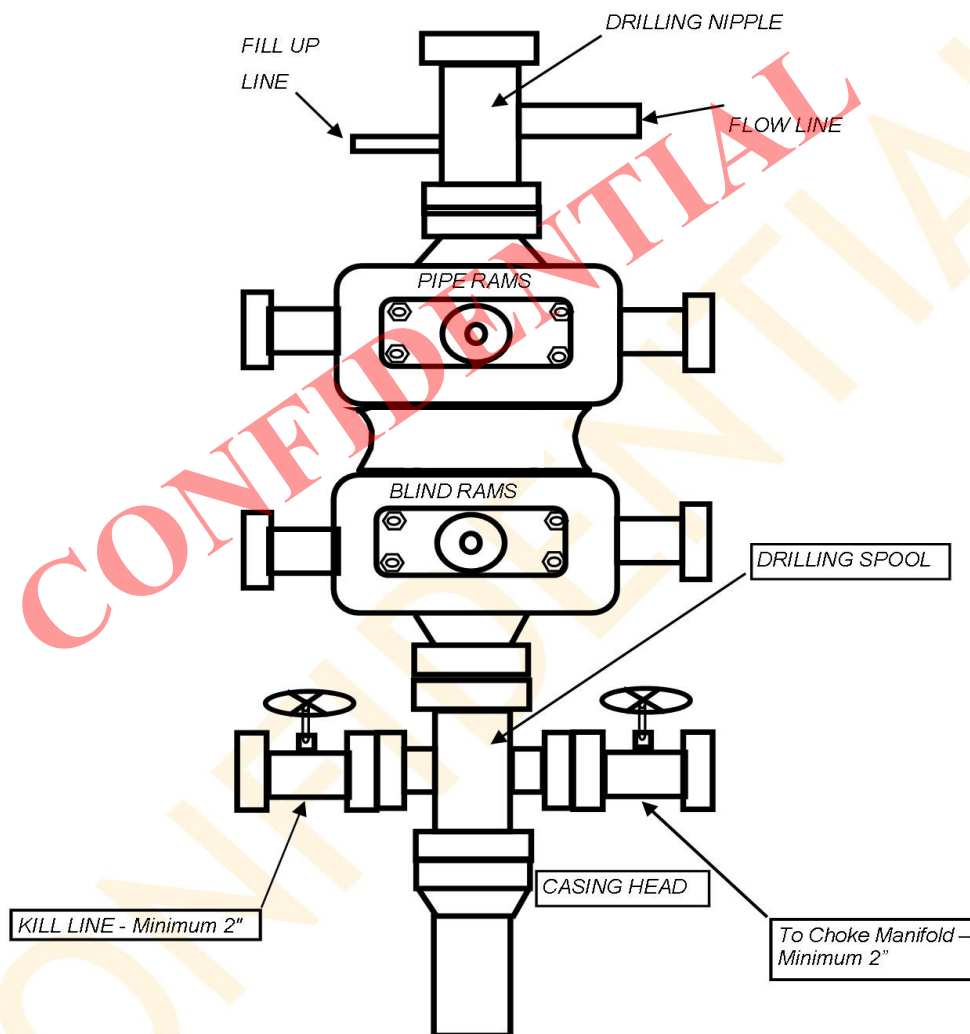
9. DIRECTIONAL WELL PLAN:

- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 4021' to 6039', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling. Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.



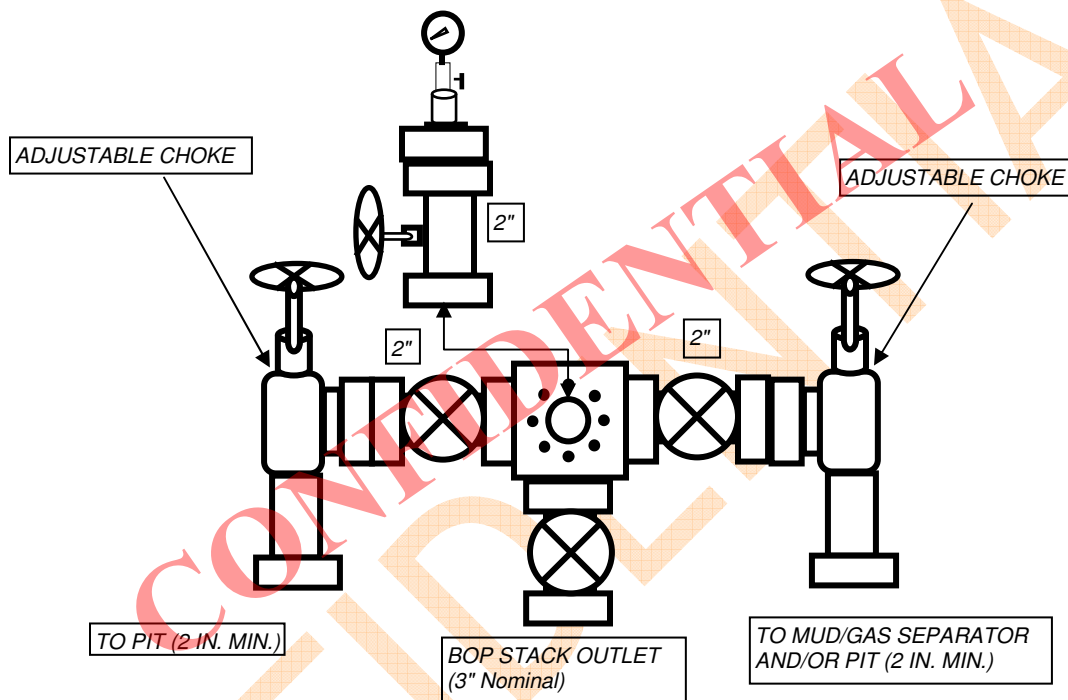
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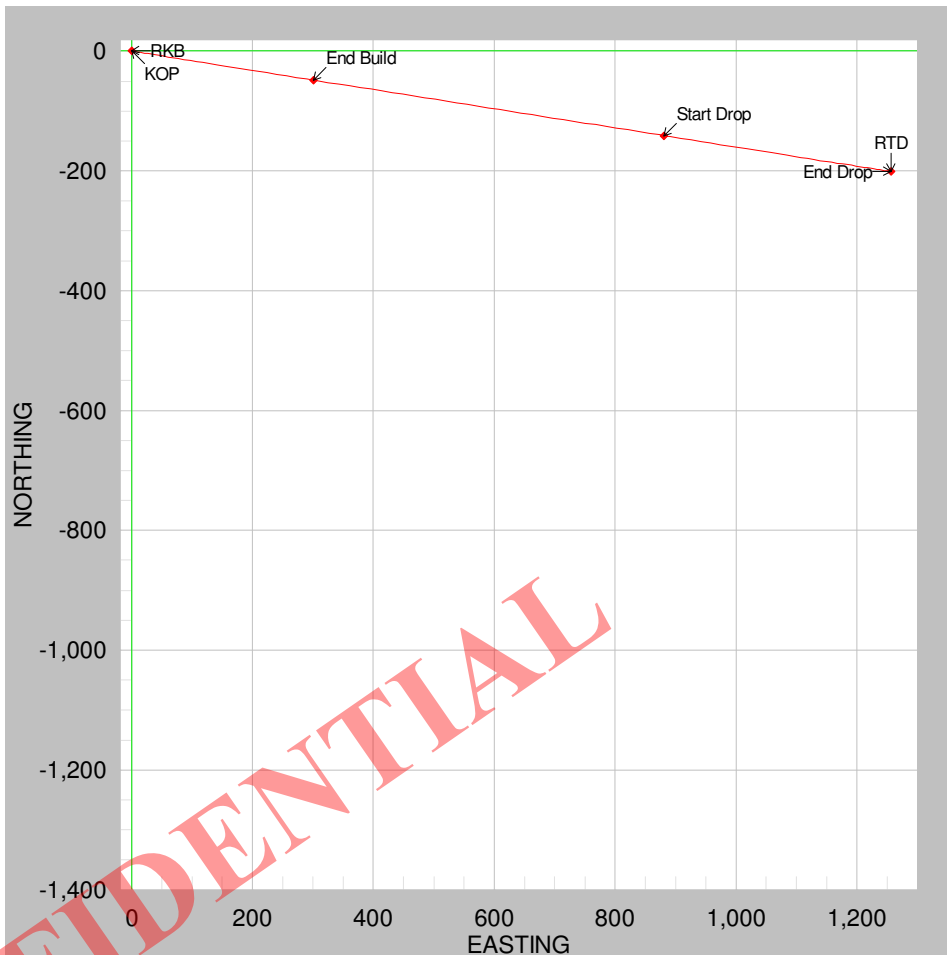
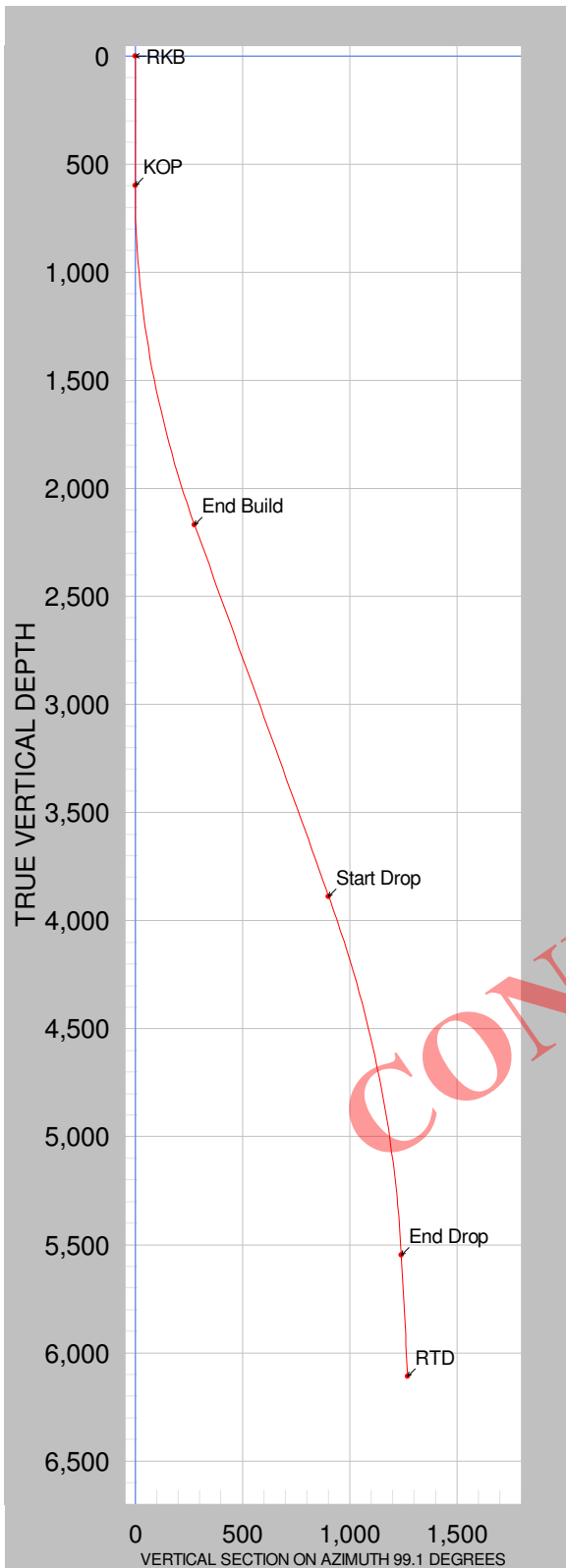
TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



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TYPICAL 2,000 p.s.i. CHOKE MANIFOLD





#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	2200.00	20.00	99.10	2167.70	-43.72	272.95	1.25	276.43
3	Start Drop	Tangent	4030.00	20.00	99.10	3887.34	-142.71	890.97	0.00	902.33
4	End Drop	Drop	5730.00	3.00	99.10	5547.11	-196.12	1224.40	1.00	1240.01
5	RTD	Tangent	6293.00	3.00	99.10	6109.34	-200.78	1253.50	0.00	1269.47

17-13, Plan 1

17-13, Plan 1										
Operator		Units		11:14 Thursday, May 02, 2013 Page 1 of 4						
Field		County		Vertical Section Azimuth 99.1						
Well Name 17-13		State		Survey Calculation Method Minimum Curvature						
Plan 1		Country		Database Access						
Location		SHL: 919' FSL 681' FEL Sec 18 660' FSL 660' FWL Sec 17			BHL:		MapZone		Lat Long Ref	
Site							SurfaceX		Surface Long	
Slot Name		UWI					SurfaceY		Surface Lat	
Well Number		API					Z Datum			
Project							Surface Z		Ground Level	
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
*** RKB (at MD = 0.00)										
0.00	0.00	0.0	0.00	0.00	0.00		0.00			
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00			
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00			
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00			
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00			
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00			
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00			
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00			
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00			
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00			
*** KOP (at MD = 600.00)										
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00			
650.00	0.63	99.1	650.00	-0.04	0.27	1.25	0.27			
700.00	1.25	99.1	699.99	-0.17	1.08	1.25	1.09			
750.00	1.88	99.1	749.97	-0.39	2.42	1.25	2.45			
800.00	2.50	99.1	799.94	-0.69	4.31	1.25	4.36			
850.00	3.13	99.1	849.88	-1.08	6.73	1.25	6.82			
900.00	3.75	99.1	899.79	-1.55	9.69	1.25	9.81			
950.00	4.38	99.1	949.66	-2.11	13.19	1.25	13.36			
1000.00	5.00	99.1	999.49	-2.76	17.22	1.25	17.44			
1050.00	5.63	99.1	1049.28	-3.49	21.79	1.25	22.07			
1100.00	6.25	99.1	1099.01	-4.31	26.90	1.25	27.24			
1150.00	6.88	99.1	1148.68	-5.21	32.54	1.25	32.96			
1200.00	7.50	99.1	1198.29	-6.20	38.72	1.25	39.21			
1250.00	8.13	99.1	1247.82	-7.28	45.43	1.25	46.01			
1300.00	8.75	99.1	1297.28	-8.44	52.68	1.25	53.35			
1350.00	9.38	99.1	1346.66	-9.68	60.45	1.25	61.22			
1400.00	10.00	99.1	1395.94	-11.01	68.76	1.25	69.64			
1450.00	10.63	99.1	1445.14	-12.43	77.60	1.25	78.59			
1500.00	11.25	99.1	1494.23	-13.93	86.97	1.25	88.07			
1550.00	11.88	99.1	1543.21	-15.51	96.86	1.25	98.10			
1600.00	12.50	99.1	1592.09	-17.18	107.28	1.25	108.65			
1650.00	13.13	99.1	1640.84	-18.94	118.23	1.25	119.74			

17-13, Plan 1

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Operator		Units		11:14 Thursday, May 02, 2013 Page 2 of 4						
Field		County		Vertical Section Azimuth 99.1						
Well Name 17-13		State		Survey Calculation Method Minimum Curvature						
Plan 1		Country		Database Access						
Location		SHL: 919' FSL 681' FEL Sec 18			BHL:		MapZone		Lat Long Ref	
		660' FSL 660' FWL Sec 17								
Site						SurfaceX		Surface Long		
Slot Name		UWI				SurfaceY		Surface Lat		
Well Number		API				Z Datum				
Project						Surface Z		Ground Level		
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
1700.00	13.75	99.1	1689.47	-20.78	129.71	1.25	131.36			
1750.00	14.38	99.1	1737.97	-22.70	141.70	1.25	143.51			
1800.00	15.00	99.1	1786.34	-24.70	154.22	1.25	156.18			
1850.00	15.63	99.1	1834.56	-26.79	167.26	1.25	169.39			
1900.00	16.25	99.1	1882.64	-28.96	180.81	1.25	183.12			
1950.00	16.88	99.1	1930.57	-31.22	194.89	1.25	197.37			
2000.00	17.50	99.1	1978.33	-33.55	209.48	1.25	212.15			
2050.00	18.13	99.1	2025.94	-35.97	224.58	1.25	227.44			
2100.00	18.75	99.1	2073.37	-38.47	240.19	1.25	243.25			
2150.00	19.38	99.1	2120.63	-41.06	256.32	1.25	259.58			
*** END BUILD (at MD = 2200.00)										
2200.00	20.00	99.1	2167.70	-43.72	272.95	1.25	276.43			
2250.00	20.00	99.1	2214.69	-46.42	289.84	0.00	293.53			
2300.00	20.00	99.1	2261.67	-49.13	306.72	0.00	310.63			
2350.00	20.00	99.1	2308.66	-51.83	323.61	0.00	327.73			
2400.00	20.00	99.1	2355.64	-54.54	340.49	0.00	344.83			
2450.00	20.00	99.1	2402.63	-57.24	357.38	0.00	361.93			
2500.00	20.00	99.1	2449.61	-59.95	374.26	0.00	379.03			
2550.00	20.00	99.1	2496.60	-62.65	391.15	0.00	396.14			
2600.00	20.00	99.1	2543.58	-65.36	408.04	0.00	413.24			
2650.00	20.00	99.1	2590.57	-68.06	424.92	0.00	430.34			
2700.00	20.00	99.1	2637.55	-70.77	441.81	0.00	447.44			
2750.00	20.00	99.1	2684.54	-73.47	458.69	0.00	464.54			
2800.00	20.00	99.1	2731.52	-76.18	475.58	0.00	481.64			
2850.00	20.00	99.1	2778.51	-78.88	492.46	0.00	498.74			
2900.00	20.00	99.1	2825.49	-81.58	509.35	0.00	515.84			
2950.00	20.00	99.1	2872.47	-84.29	526.24	0.00	532.94			
3000.00	20.00	99.1	2919.46	-86.99	543.12	0.00	550.04			
3050.00	20.00	99.1	2966.44	-89.70	560.01	0.00	567.15			
3100.00	20.00	99.1	3013.43	-92.40	576.89	0.00	584.25			
3150.00	20.00	99.1	3060.41	-95.11	593.78	0.00	601.35			
3200.00	20.00	99.1	3107.40	-97.81	610.66	0.00	618.45			
3250.00	20.00	99.1	3154.38	-100.52	627.55	0.00	635.55			
3300.00	20.00	99.1	3201.37	-103.22	644.44	0.00	652.65			
3350.00	20.00	99.1	3248.35	-105.93	661.32	0.00	669.75			

17-13, Plan 1

17-13, Plan 1										
Operator		Units		feet, %/100ft		11:14 Thursday, May 02, 2013 Page 3 of 4				
Field		County		Duchesne		Vertical Section Azimuth 99.1				
Well Name 17-13		State		UT		Survey Calculation Method Minimum Curvature				
Plan 1		Country		USA		Database Access				
Location		SHL: 919' FSL 681' FEL Sec 18			BHL:		MapZone		Lat Long Ref	
Site		660' FSL 660' FWL Sec 17					SurfaceX		Surface Long	
Slot Name		UWI					SurfaceY		Surface Lat	
Well Number		API					Z Datum			
Project							Surface Z		Ground Level	
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
3400.00	20.00	99.1	3295.34	-108.63	678.21	0.00	686.85			
3450.00	20.00	99.1	3342.32	-111.34	695.09	0.00	703.95			
3500.00	20.00	99.1	3389.31	-114.04	711.98	0.00	721.05			
3550.00	20.00	99.1	3436.29	-116.75	728.87	0.00	738.16			
3600.00	20.00	99.1	3483.27	-119.45	745.75	0.00	755.26			
3650.00	20.00	99.1	3530.26	-122.15	762.64	0.00	772.36			
3700.00	20.00	99.1	3577.24	-124.86	779.52	0.00	789.46			
3750.00	20.00	99.1	3624.23	-127.56	796.41	0.00	806.56			
3800.00	20.00	99.1	3671.21	-130.27	813.29	0.00	823.66			
3850.00	20.00	99.1	3718.20	-132.97	830.18	0.00	840.76			
3900.00	20.00	99.1	3765.18	-135.68	847.07	0.00	857.86			
3950.00	20.00	99.1	3812.17	-138.38	863.95	0.00	874.96			
4000.00	20.00	99.1	3859.15	-141.09	880.84	0.00	892.06			
*** START DROP (at MD = 4030.00)										
4030.00	20.00	99.1	3887.34	-142.71	890.97	0.00	902.33			
4050.00	19.80	99.1	3906.15	-143.79	897.69	1.00	909.13			
4100.00	19.30	99.1	3953.27	-146.43	914.21	1.00	925.86			
4150.00	18.80	99.1	4000.53	-149.01	930.33	1.00	942.18			
4200.00	18.30	99.1	4047.93	-151.53	946.03	1.00	958.09			
4250.00	17.80	99.1	4095.47	-153.98	961.33	1.00	973.58			
4300.00	17.30	99.1	4143.14	-156.36	976.22	1.00	988.66			
4350.00	16.80	99.1	4190.94	-158.68	990.69	1.00	1003.32			
4400.00	16.30	99.1	4238.87	-160.94	1004.76	1.00	1017.56			
4450.00	15.80	99.1	4286.92	-163.12	1018.41	1.00	1031.39			
4500.00	15.30	99.1	4335.09	-165.24	1031.64	1.00	1044.79			
4550.00	14.80	99.1	4383.38	-167.30	1044.46	1.00	1057.77			
4600.00	14.30	99.1	4431.77	-169.28	1056.86	1.00	1070.33			
4650.00	13.80	99.1	4480.28	-171.20	1068.85	1.00	1082.47			
4700.00	13.30	99.1	4528.89	-173.05	1080.42	1.00	1094.19			
4750.00	12.80	99.1	4577.59	-174.84	1091.56	1.00	1105.48			
4800.00	12.30	99.1	4626.40	-176.56	1102.29	1.00	1116.34			
4850.00	11.80	99.1	4675.30	-178.21	1112.60	1.00	1126.78			
4900.00	11.30	99.1	4724.28	-179.79	1122.48	1.00	1136.79			
4950.00	10.80	99.1	4773.36	-181.31	1131.95	1.00	1146.37			
5000.00	10.30	99.1	4822.51	-182.76	1140.99	1.00	1155.53			

17-13, Plan 1

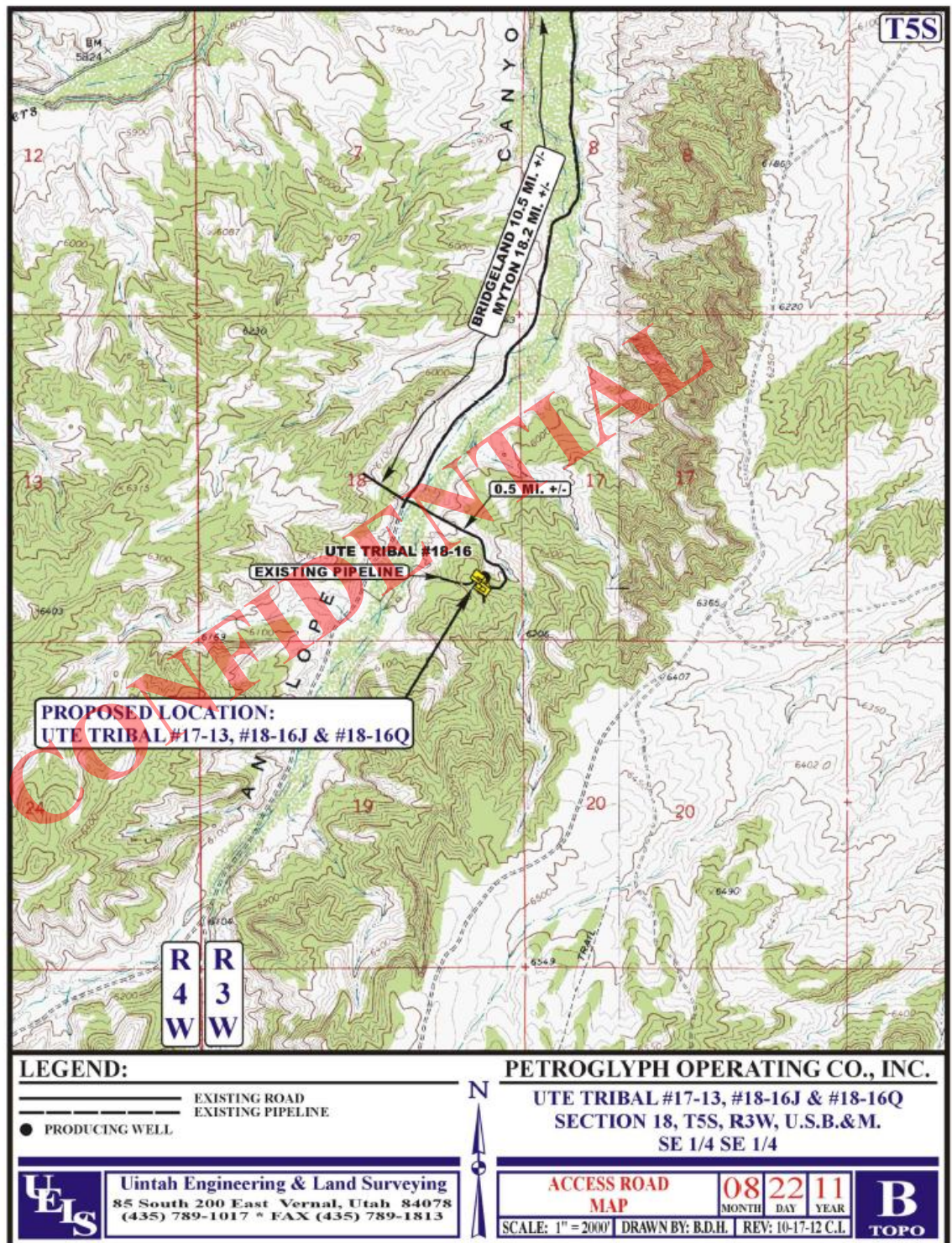
Operator		Units	feet, %/100ft	11:14 Thursday, May 02, 2013	Page 4 of 4
Field		County	Duchesne	Vertical Section Azimuth	99.1
Well Name	17-13	State	UT	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access

Location	SHL: 919' FSL 681' FEL Sec 18 660' FSL 660' FWL Sec 17	BHL:		MapZone		Lat Long Ref	
Site		SurfaceX		SurfaceY		Surface Long	
Slot Name		UWI		Z Datum		Surface Lat	
Well Number		API		Surface Z		Ground Level	
Project							

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
5050.00	9.80	99.1	4871.74	-184.14	1149.60	1.00	1164.25			
5100.00	9.30	99.1	4921.05	-185.45	1157.79	1.00	1172.55			
5150.00	8.80	99.1	4970.43	-186.69	1165.56	1.00	1180.42			
5200.00	8.30	99.1	5019.87	-187.87	1172.90	1.00	1187.85			
5250.00	7.80	99.1	5069.38	-188.98	1179.81	1.00	1194.85			
5300.00	7.30	99.1	5118.95	-190.01	1186.30	1.00	1201.42			
5350.00	6.80	99.1	5168.57	-190.98	1192.36	1.00	1207.56			
5400.00	6.30	99.1	5218.24	-191.89	1197.99	1.00	1213.26			
5450.00	5.80	99.1	5267.96	-192.72	1203.19	1.00	1218.53			
5500.00	5.30	99.1	5317.73	-193.49	1207.97	1.00	1223.37			
5550.00	4.80	99.1	5367.53	-194.18	1212.31	1.00	1227.77			
5600.00	4.30	99.1	5417.38	-194.81	1216.23	1.00	1231.73			
5650.00	3.80	99.1	5467.25	-195.37	1219.72	1.00	1235.26			
5700.00	3.30	99.1	5517.16	-195.86	1222.77	1.00	1238.36			
*** END DROP (at MD = 5730.00)										
5730.00	3.00	99.1	5547.11	-196.12	1224.40	1.00	1240.01			
5750.00	3.00	99.1	5567.08	-196.28	1225.44	0.00	1241.06			
5800.00	3.00	99.1	5617.01	-196.70	1228.02	0.00	1243.67			
5850.00	3.00	99.1	5666.95	-197.11	1230.60	0.00	1246.29			
5900.00	3.00	99.1	5716.88	-197.52	1233.19	0.00	1248.91			
5950.00	3.00	99.1	5766.81	-197.94	1235.77	0.00	1251.52			
6000.00	3.00	99.1	5816.74	-198.35	1238.36	0.00	1254.14			
6050.00	3.00	99.1	5866.67	-198.77	1240.94	0.00	1256.76			
6100.00	3.00	99.1	5916.60	-199.18	1243.52	0.00	1259.37			
6150.00	3.00	99.1	5966.53	-199.59	1246.11	0.00	1261.99			
6200.00	3.00	99.1	6016.47	-200.01	1248.69	0.00	1264.61			
6250.00	3.00	99.1	6066.40	-200.42	1251.27	0.00	1267.22			
*** RTD (at MD = 6293.00)										
6293.00	3.00	99.1	6109.34	-200.78	1253.50	0.00	1269.47			





PETROGLYPH OPERATING CO., INC.
P.O. BOX 607
ROOSEVELT, UTAH 84066

May 30, 2013

Ms. Diana Mason
State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11

Ute Tribal 17-13: 879' FSL & 594' FEL, SE/SE, Sec. 18 (Surface Hole)
 660' FSL & 660' FWL, SW/SW, Sec. 17 (Bottom Hole)
 T5S, R3W, U.S.B.&M.,
 Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on May 30, 2013, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 17-13 is located within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and drilling directionally from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter,
Agent
P.O. Box 1910
Vernal, UT 84078
Phone: (435)789-4120
Fax: (435)789-1420
E-mail: edtrotter@easilink.com

RECEIVED: May 30, 2013

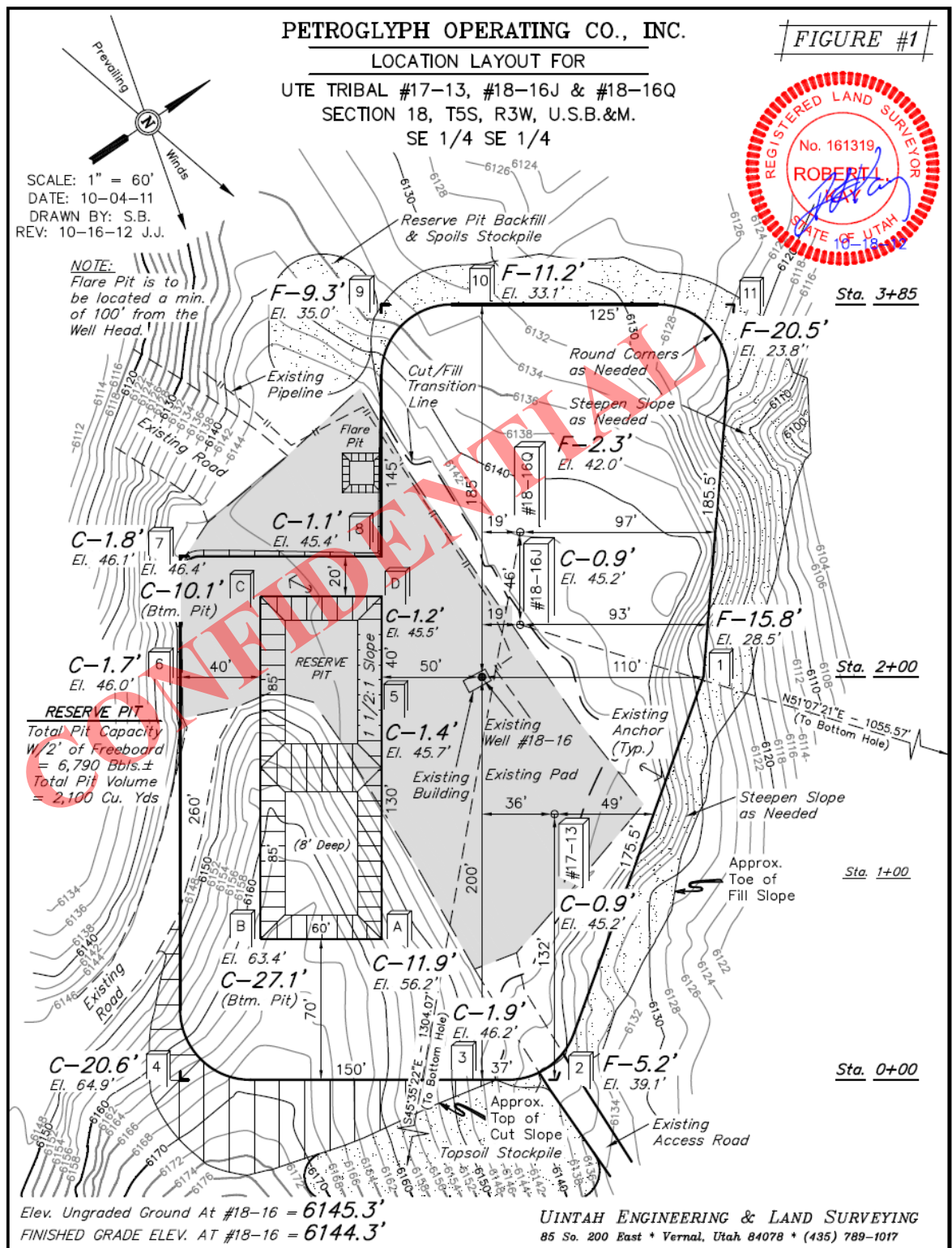
Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

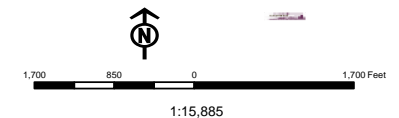
Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 17-13 Well, located in the SE/SE of Section 18, T5S, R3W, Duchesne County, Utah; Lease #14-20-H62-3513**; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LPM4138335.

Date

Ed Trotter, as Agent for
Petroglyph Operating Co., Inc.



Map Produced by Diana Mason



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/30/2013

API NO. ASSIGNED: 43013522020000

WELL NAME: Ute Tribal 17-13

OPERATOR: PETROGLYPH OPERATING CO (N3800)

PHONE NUMBER: 435 789-4120

CONTACT: Ed Trotter

PROPOSED LOCATION: SESE 18 050S 030W

Permit Tech Review: ☒

SURFACE: 0879 FSL 0594 FEL

Engineering Review: ☐

BOTTOM: 0660 FSL 0660 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.04178

LONGITUDE: -110.25843

UTM SURF EASTINGS: 563262.00

NORTHINGS: 4432657.00

FIELD NAME: ANTELOPE CREEK

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420H623513

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: INDIAN - LPM4138336☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-8342☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingling Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit: ANTELOPE CREEK

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 214-2

Effective Date: 6/9/2000

Siting: Suspends General Siting

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
15 - Directional - dmason

RECEIVED: June 10, 2013



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Ute Tribal 17-13
API Well Number: 43013522020000
Lease Number: 1420H623513
Surface Owner: INDIAN
Approval Date: 6/10/2013

Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Avenue, Ste 500, Boise, ID 83703

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 214-2. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil &

Gas website
at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H623513
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 17-13
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0879 FSL 0594 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 18 Township: 05.0S Range: 03.0W Meridian: U		9. API NUMBER: 43013522020000
9. FIELD and POOL or WILDCAT: ANTELOPE CREEK		COUNTY: DUCHESNE
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/18/2013			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

 This well was spud on 11/18/2013 at approximately 6:30 A.M. Using a Bucket Rig (BR 2) provided by Craig's Roustabout Service, Vernal UT, we set 60' of 16" Conductor. For additional information please contact our staff at 435-722-2531.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 November 21, 2013

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 11/19/2013	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 06 2013

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

CONFIDENTIAL

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 1420H623513
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name UINTAH AND OURAY
2. Name of Operator PETROGLYPH OPERATING CO INC		7. If Unit or CA Agreement, Name and No. 1420H624650
Contact: ED H TROTTER Mail: edtrotter@easilink.com		8. Lease Name and Well No. UTE TRIBAL 17-13
3a. Address ROOSEVELT, UT 84066	3b. Phone No. (include area code) Ph: 435-789-4120 Fx: 435-789-1420	9. API Well No. 4301352202
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE 879FSL 594FEL 40.041719 N Lat, 110.258319 W Lon At proposed prod. zone SWSW 660FSL 660FWL 40.041117 N Lat, 110.253839 W Lon		10. Field and Pool, or Exploratory ANTELOPE CREEK
14. Distance in miles and direction from nearest town or post office* 18.7 MILES SOUTHWEST OF MYTON, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 18 T5S R3W Mer UBM SME: BIA
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 594	16. No. of Acres in Lease	12. County or Parish DUCESNE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 869	19. Proposed Depth 6293 MD 6109 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6144 GL	22. Approximate date work will start 08/15/2013	17. Spacing Unit dedicated to this well
		20. BLM/BIA Bond No. on file LPM4138335
		23. Estimated duration 45 DAYS

24. Attachments

NOV 15 2013

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

DIV. OF OIL, GAS & MINING

25. Signature (Electronic Submission)	Name (Printed/Typed) LESTER FARNSWORTH Ph: 435-722-2531	Date 06/04/2013
Title DISTRICT MANAGER		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date NOV 12 2013
Title Assistant District Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

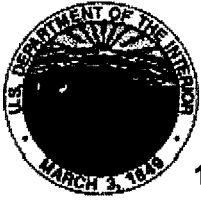
Additional Operator Remarks (see next page)

Electronic Submission #209557 verified by the BLM Well Information System
For PETROGLYPH OPERATING CO INC, sent to the Vernal
Field Office and submitted to AFMSS for processing by JOHNETTA MAGEE on 06/11/2013 (13JM1044AE)

NOTICE OF APPROVAL

UDOGM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

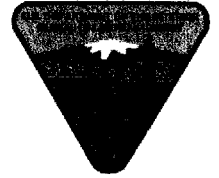


UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: PETROGLYPH OPERATING CO INC
Well No: UTE TRIBAL 17-13
API No: 43-013-52202

Location: SESW, Sec. 18, T5S, R3W
Lease No: 14-20-H62-3513
Agreement: N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- Both existing and new infrastructure will be painted Covert Green
- Remove all tanks and production systems until drilling operations are complete.
- Remove all existing flow-lines on the new damage until drilling operations are complete.
- The damage corners will be re-staked before dirt work commences and a Tribal Compliance officer will be present to ensure that the dirt stays within the authorized areas.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Gamma Ray Log shall be run for Total Depth to Surface.
- CBL will be run from TD to TOC.
- Cement for the surface casing will be circulated to the surface.
- Cement for the long-string shall be circulated 200' above surface casing shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of

each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: Petroglyph Operating Company Operator Account Number: N 3800
Address: P.O. Box 607
city Roosevelt
state UT zip 84066 Phone Number: (435) 722-2531

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301352202	Ute Tribal 17-13		SESE	18	5S	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	12084	11/18/2013		11/27/2013		
Comments: Please add well to existing Ute Tribal 18-16 Tank Battery.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Rodrigo Jurado

Name (Please Print)

Signature

Regulatory Compliance Spc

11/19/2013

Title

Date

NOV 19 2013

Div. of Oil, Gas & Mining

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Craig's/Pro Petro
Submitted By Rodrigo Jurado Phone Number 435-722-5302
Well Name/Number Ute Tribal 17-13
Qtr/Qtr SESE Section 18 Township 5S Range 3W
Lease Serial Number 14-20-H62-3513
API Number 43-013-52202

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 11/25/2013 07:00 AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

RECEIVED

NOV 22 2013

DIV. OF OIL, GAS & MINING

Date/Time _____ AM ☐ PM ☐

Remarks We plan on running +/- 500' of 8-5/8" J-55 Surface Casing at the time indicated. (Sent 11/22/2013 @ 3:00 P.M.)

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Co Rig Name/# Capstar 334
Submitted By Jon Willis Phone Number 970-361-3271
Well Name/Number Ute Tribal 17-13
Qtr/Qtr SE/SE Section 18 Township 5S Range 3W
Lease Serial Number 14-20-H62-4633
API Number 43-013-52202

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time _____ AM ☐ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

RECEIVED

DEC 08 2013

DIV. OF OIL, GAS & MINING

Date/Time 12/08/2013 18:00 AM ☐ PM ☒

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H623513			
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In			
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME: ANTELOPE CREEK			
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 17-13			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0879 FSL 0594 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 18 Township: 05.0S Range: 03.0W Meridian: U		9. API NUMBER: 43013522020000			
9. FIELD and POOL or WILDCAT: ANTELOPE CREEK		COUNTY: DUCHESNE			
STATE: UTAH					
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/7/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Please see attached.					
Accepted by the Utah Division of Oil, Gas and Mining Date: December 30, 2013 By: <u>Derek Quist</u>					
NAME (PLEASE PRINT) Rodrigo Jurado		PHONE NUMBER 435 722-5302			
SIGNATURE N/A		TITLE Regulatory & Compliance Spc			
DATE 12/30/2013					

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3513
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
4. LOCATION OF WELL FOOTAGES AT SURFACE: 879' FSL, 594' FEL		8. WELL NAME and NUMBER: Ute Tribal 17-13
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 18 5S 3W U		9. API NUMBER: 4301352202
COUNTY: Duchesne		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 1/7/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On or around 1/7/2014, depending on equipment availability, Petroglyph Operating intends to perforate and fracture treat the following: 4177-80, 4196-4204, 4206-09, 4214-24, 4382-87, 4396-4401, 4402-35, 4441-43, 4450-56, 4459-63, 4606-13, 4640-46, 4650-58, 4720-23, 4758-65, 4830-35, 4868-72, 4917-23, 4952-56, 4987-92, 4995-5004, 5140-46, 5253-72, 5292-95, 5322-24, 5667-70 & 5678-98. We will perforate at 4 shots per foot and isolate zones using Halliburton 8K Composite Plugs. We plan complete the following stages:

5667-5698: 33,600 Gals of fluid containing 60,000#'s of sand,
5140-5324: 42,000 Gals of fluid containing 75,000#'s of sand,
4987-5004: 28,000 Gals of fluid containing 50,000#'s of sand,
4917-4956: 15,680 Gals of fluid containing 28,000#'s of sand,
4720-4872: 19,600 Gals of fluid containing 35,000#'s of sand,
4606-4658: 28,000 Gals of fluid containing 50,000#'s of sand,
4382-4463: 36,400 Gals of fluid containing 65,000#'s of sand,
4177-4224: 33,600 Gals of fluid containing 60,000#'s of sand.

This plan is tentative and will be adjusted as needed during completion operations. Volumes and amounts of sand are only estimates, actual figures will be reported at a later date. All plugs will be drilled out and the well swabbed as necessary.

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Specialist
SIGNATURE  DATE 12/30/2013

(This space for State use only)

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Co. Rig Name/# Capstar 334
Submitted By Jon Willis Phone Number 970-361-3271
Well Name/Number Ute Tribal 17-13
Qtr/Qtr SE/SE Section 18 Township 5S Range 3W
Lease Serial Number 14-20-H62-4633
API Number 43-013-52202

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
☐ Intermediate Casing
☒ Production Casing
☐ Liner
☐ Other

Date/Time 12/12/2013 18:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

RECEIVED**DEC 11 2013**

DIV. OF OIL, GAS & MINING

Date/Time _____ AM ☐ PM ☐

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H623513
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 17-13
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0879 FSL 0594 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 18 Township: 05.0S Range: 03.0W Meridian: U		9. API NUMBER: 43013522020000
9. FIELD and POOL or WILDCAT: ANTELOPE CREEK		COUNTY: DUCHESNE
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/22/2014	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	OTHER: <input style="width: 100px;" type="text"/>		
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF			
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The date of first production for this well was 01/22/2014.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 January 28, 2014

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 1/27/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H623513
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 17-13
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0879 FSL 0594 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 18 Township: 05.0S Range: 03.0W Meridian: U		9. API NUMBER: 43013522020000
9. FIELD and POOL or WILDCAT: ANTELOPE CREEK		COUNTY: DUCHESNE
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/24/2014				
<input type="checkbox"/> SPUD REPORT Date of Spud:				
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY**
 June 04, 2014

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 6/4/2014	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3513
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
4. LOCATION OF WELL FOOTAGES AT SURFACE: 879' FSL 594' FEL		8. WELL NAME and NUMBER: Ute Tribal 17-13
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 18 5S 3W U		9. API NUMBER: 4301352202
COUNTY: Duchesne		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 1/24/2014	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 12/31/2013 Petroglyph Operating ran GR/CBL and found ETOC @ 250', then on 1/7/2014 perforated the following: 5678-98, 5667-70, 5322-24, 5292-95, 5253-72, 5140-46, 4995-5004, 4987-92, 4952-56, 4917-23, 4868-72, 4830-35, 4758-65, 4720-23, 4650-58, 4640-46, 4606-13, 4459-63, 4450-56, 4441-43, 4422-35, 4396-4401, 4382-87, 4214-24, 4206-09, 4196-4204, 4177-80. We isolated and fracture treated the following intervals:
 5,667'-5,698': 754 Bbls of fluid containing 60,110#'s of sand,
 5,140'-5,324': 781 Bbls of fluid containing 75,120#'s of sand,
 4,987'-5,004': 625 Bbls of fluid containing 50,170#'s of sand,
 4,917'-4,956': 461 Bbls of fluid containing 27,960#'s of sand,
 4,720'-4,872': 478 Bbls of fluid containing 35,180#'s of sand,
 4,606'-4,658': 589 Bbls of fluid containing 50,140#'s of sand,
 4,382'-4,463': 693 Bbls of fluid containing 65,240#'s of sand,
 4,177'-4,224': 696 Bbls of fluid containing 54,510#'s of sand.
 Isolation plugs used were Halliburton 8K Composite Plugs, fluid used was Delta 140 18# gelled fluid, sand used was 20/40 Mesh Premium White Sand and plugs used were Titan 3-1/8", containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 SPF @ 120* Phased. All plugs were drilled out and cleaned out to PBTB, 6,043'. The well was swabbed until a good oil cut was seen, then ran a pump on 1/21/2014 and put to pump.

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Specialist
 SIGNATURE  DATE 5/28/2014

(This space for State use only)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3513	
b. TYPE OF WORK:		NEW WELL <input checked="" type="checkbox"/>	HORIZ. LATS. <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	RE-ENTRY <input type="checkbox"/>	DIFF. RESVR <input type="checkbox"/>	OTHER _____
2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.						7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650	
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066						8. WELL NAME and NUMBER: Ute Tribal 17-13	
4. LOCATION OF WELL (FOOTAGES): AT SURFACE: 879' FSL, 594' FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: 731' FSL, 338' FWL SWSW Sec. 17 T5S R3W AT TOTAL DEPTH: 688' FSL, 628' FWL SWSW Sec. 17 T5S R3W						9. API NUMBER: 4301352202	
10. FIELD AND POOL, OR WILDCAT: Antelope Creek						11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 18 5S 3W U	
12. COUNTY: Duchesne						13. STATE: UTAH	
14. DATE SPUDDED: 11/18/2013		15. DATE T.D. REACHED: 12/12/2013		16. DATE COMPLETED: 1/21/2014		17. ELEVATIONS (DF, RKB, RT, GL): 6,157' RKB	
18. TOTAL DEPTH: MD 6,125 TVD 5,945		19. PLUG BACK T.D.: MD 6,043 TVD 5,863		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD	

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
ACTR, SDDSN, Cement Bond Log, Borehole Volume Plot23.
WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)
WAS DST RUN? NO ☒ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☒ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
26	16 J-55	75	0	73				0	Conductor
12.25	8.625 J-55	24	0	549		G 350	72	0	
7.875	5.5 J-55	15.5	0	6,116		G 820	253	250'	CBL

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	5,723							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Green River	4,177	5,698	4,028	5,520	4,177 5,698	0.42	664	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
4,177'-5,698'	5,077 Bbls of Delta 140 18# Gelled Fluid Containing 418,430#'s of 20/40 Mesh Sand.

29. ENCLOSED ATTACHMENTS:

☒ ELECTRICAL/MECHANICAL LOGS
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION
☐ GEOLOGIC REPORT
☐ CORE ANALYSIS
☐ DST REPORT
☒ DIRECTIONAL SURVEY
☒ OTHER: UDOGM Form 7

30. WELL STATUS:

POW

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 1/22/2014	TEST DATE: 3/15/2014	HOURS TESTED: 24	TEST PRODUCTION RATES →	OIL – BBL: 180	GAS – MCF: 133	WATER – BBL: 62	PROD. METHOD: Rod Pump
CHOKE SIZE: 32/64	TBG. PRESS. 251	CSG. PRESS. 251	API GRAVITY 39.10	BTU – GAS 1	GAS/OIL RATIO 739	24 HR PRODUCTION RATES →	INTERVAL STATUS: Open

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES →	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES →	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Used for Fuel

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Trona	2,672
				Mahogany	2,833
				Garden Gulch	3,576
				B Marker	3,996
				X Marker	4,513
				Y Marker	4,548
				Douglas Creek	4,662
				B Lime	5,058
				Castle Peak	5,614
				Basal Carbonate	6,023

35. ADDITIONAL REMARKS (Include plugging procedure)

All Frac and Perf info is condensed. Please see NOI and Subsequent Frac Sundry for a detailed record.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Specialist

SIGNATURE  DATE 6/16/2014

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 7

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: Ute Tribal 17-13API number: 4301352202Well Location: QQ SESE Section 18 Township 5S Range 3W County DuchesneWell operator: Petroglyph Operating Company, Inc.Address: P.O. Box 607city Roosevelt state UT zip 84066Phone: (435) 722-2531Drilling contractor: ProPetro ServicesAddress: 1422 East 1500 Southcity Vernal state UT zip 84078Phone: (435) 789-1735

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	549	< 1	Salty

Formation tops:
(Top to Bottom)

1	2	3
4	5	6
7	8	9
10	11	12

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

NAME (PLEASE PRINT) Rodrigo JuradoTITLE Regulatory Compliance SpecialistSIGNATURE DATE 11/29/2013

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

multi-chem

A HALLIBURTON SERVICE

Units of Measurement: Standard

Water Analysis Report

Production Company: PETROGLYPH ENERGY INC

Well Name: UTE TRIBAL 17-13

Sample Point: Rig 531 feet

Sample Date: 11/26/2013

Sample ID: WA-260911

Sales Rep: James Patry

Lab Tech: Gary Winegar

Scaling potential predicted using ScaleSoftPitzer from
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	12/13/2013	Sodium (Na):		Chloride (Cl):	
System Temperature 1 (°F):	190	2645.00		6000.00	
System Pressure 1 (psig):	1300	Potassium (K):		Sulfate (SO ₄):	
System Temperature 2 (°F):	60	14.00		20.00	
System Pressure 2 (psig):	15	Magnesium (Mg):		Bicarbonate (HCO ₃):	
Calculated Density (g/ml):	1.004	11.50		1464.00	
pH:	8.50	Calcium (Ca):		Carbonate (CO ₃):	
Calculated TDS (mg/L):	10211.70	18.80		Acetic Acid (CH ₃ COO)	
CO ₂ in Gas (%):		Strontium (Sr):		1.20	
Dissolved CO ₂ (mg/L):	0.00	Barium (Ba):		1.10	
H ₂ S in Gas (%):		Iron (Fe):		Butanoic Acid (C ₃ H ₇ COO)	
H ₂ S in Water (mg/L):	0.00	Zinc (Zn):		0.01	
		Lead (Pb):		Isobutyric Acid ((CH ₃) ₂ CHCOO)	
		Ammonia NH ₃ :		0.00	
		Manganese (Mn):		Fluoride (F):	
				Bromine (Br):	
				Silica (SiO ₂):	
				34.24	

Notes:

B=39 Al=2.1 Li=1.4

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO ₄ ·2H ₂ O		Celestite SrSO ₄		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	1.11	14.51	0.23	0.27	0.00	0.00	1.84	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74.00	157.00	1.12	14.55	0.08	0.10	0.00	0.00	1.91	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88.00	300.00	1.14	14.65	0.00	0.00	0.00	0.00	1.99	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103.00	443.00	1.17	14.77	0.00	0.00	0.00	0.00	2.07	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.00	585.00	1.20	14.90	0.00	0.00	0.00	0.00	2.14	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.00	728.00	1.24	15.04	0.00	0.00	0.00	0.00	2.21	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146.00	871.00	1.28	15.18	0.00	0.00	0.00	0.00	2.28	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161.00	1014.00	1.33	15.32	0.00	0.00	0.00	0.00	2.35	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.00	1157.00	1.38	15.46	0.00	0.00	0.00	0.00	2.41	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	1300.00	1.44	15.59	0.00	0.00	0.00	0.00	2.47	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

multi-chem[®]

A HALLIBURTON SERVICE

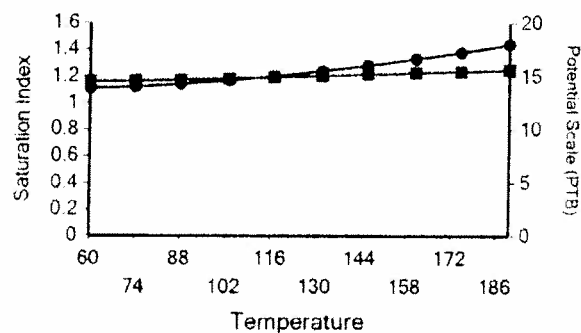
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ •0.5H ₂ O		Anhydrite CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	4.67	0.22	1.89	7.38	1.40
74.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	7.17	0.47	3.54	7.60	1.40
88.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87	9.79	0.76	5.40	7.91	1.40
103.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	12.24	1.08	7.26	8.24	1.40
117.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.06	14.50	1.40	9.10	8.59	1.40
132.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.67	16.53	1.73	10.89	8.97	1.40
146.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.28	18.29	2.07	12.62	9.36	1.40
161.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.89	19.73	2.41	14.26	9.76	1.40
175.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	5.49	20.83	2.75	15.78	10.16	1.40
190.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	6.08	21.61	3.08	17.15	10.57	1.40

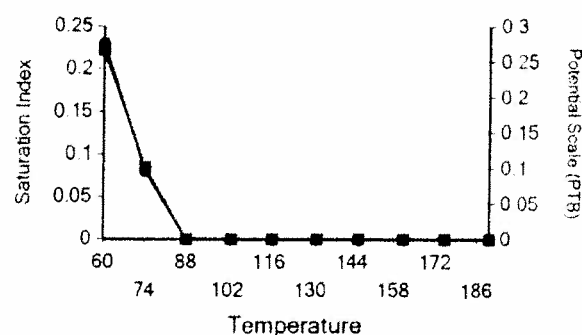
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Carbonate Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

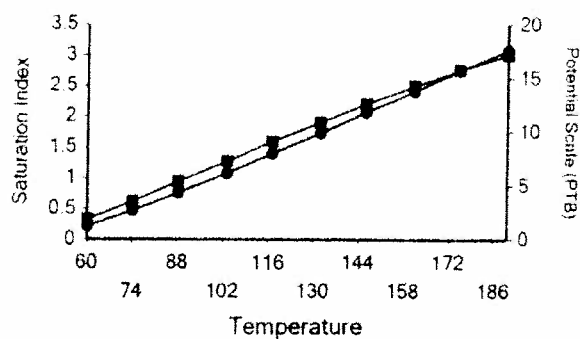
Calcium Carbonate



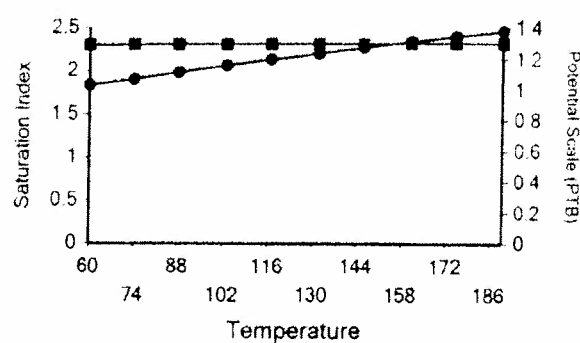
Barium Sulfate



Ca Mg Silicate



Iron Carbonate

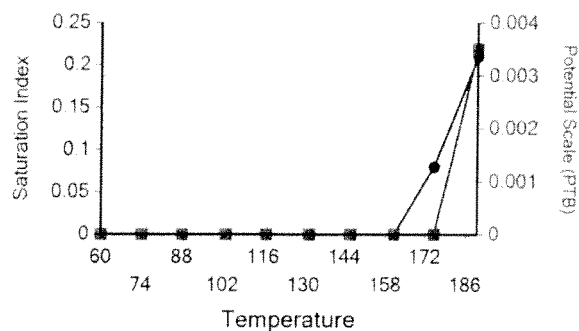


Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

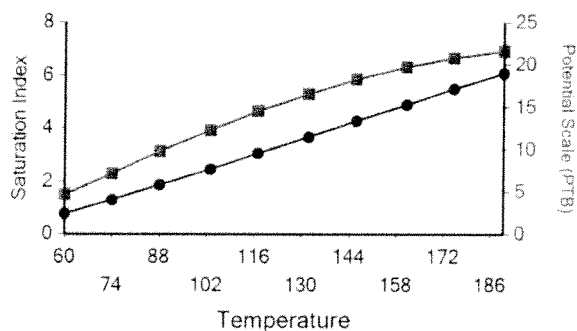
multi-chem®
A HALLIBURTON SERVICE

Water Analysis Report

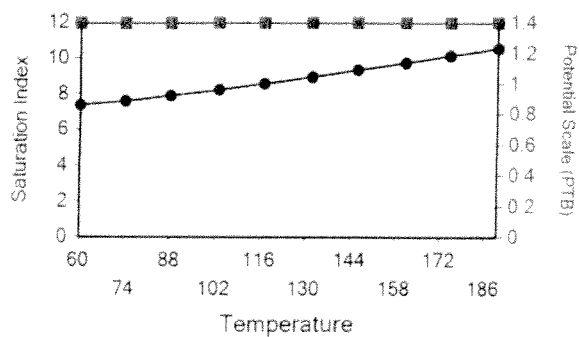
Zinc Carbonate



Mg Silicate



Fe Silicate





Job Number: UT131425
 Company: Petroglyph
 Lease/Well: Ute Tribal 17-13
 Location: Antelope Creek
 Rig Name: Capstar 334
 RKB: ☐
 G.L. or M.S.L.: ☐

State/Country: UT
 Declination: 11.07
 Grid: True
 File name: C:\WINSERVE\UT131425.SVY
 Date/Time: 12-Dec-13 / 03:00
 Curve Name: Ute Tribal_17-13_Actual

Payzone Directional Services LLC

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 99.10
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
559.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
559.00	.20	186.40	559.00	-.97	-.11	.05	.98	186.40	.04
652.00	1.60	86.40	651.99	-1.05	1.17	1.32	1.57	131.91	1.77
744.00	3.40	90.70	743.90	-1.00	5.18	5.27	5.28	100.95	1.97
851.00	4.70	91.80	850.63	-1.18	12.73	12.76	12.79	95.29	1.22
942.00	5.30	91.10	941.28	-1.38	20.66	20.62	20.71	93.81	.66
1034.00	6.50	97.70	1032.79	-2.16	30.07	30.03	30.15	94.10	1.50
1125.00	7.30	101.00	1123.13	-3.95	40.85	40.96	41.04	95.52	.98
1216.00	8.00	100.40	1213.32	-6.20	52.75	53.07	53.12	96.70	.77
1308.00	9.30	99.20	1304.27	-8.54	66.39	66.91	66.94	97.33	1.43

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		
							Distance FT	Direction Deg	Dogleg Severity Deg/100
1399.00	10.70	99.50	1393.89	-11.11	81.98	82.71	82.73	97.72	1.54
1491.00	10.40	97.00	1484.33	-13.53	98.65	99.55	99.57	97.81	.59
1582.00	10.60	97.60	1573.81	-15.64	115.10	116.12	116.15	97.74	.25
1673.00	12.40	97.50	1662.98	-18.02	133.08	134.26	134.30	97.71	1.98
1764.00	12.60	95.80	1751.82	-20.30	152.64	153.93	153.99	97.58	.46
1856.00	13.10	99.80	1841.52	-23.09	172.90	174.38	174.43	97.61	1.11
1947.00	14.70	102.50	1929.85	-27.34	194.34	196.21	196.25	98.01	1.90
2038.00	16.90	103.60	2017.41	-32.95	218.47	220.93	220.94	98.58	2.44
2130.00	18.40	102.70	2105.08	-39.29	245.63	248.75	248.75	99.09	1.66
2221.00	19.50	100.90	2191.14	-45.32	274.56	278.27	278.27	99.37	1.37
2312.00	19.40	100.10	2276.95	-50.84	304.35	308.56	308.57	99.48	.31
2404.00	19.70	98.40	2363.65	-55.79	334.73	339.34	339.35	99.46	.70
2495.00	20.60	98.20	2449.08	-60.31	365.75	370.69	370.69	99.36	.99
2586.00	20.50	99.10	2534.29	-65.11	397.33	402.63	402.63	99.31	.36
2678.00	21.10	97.50	2620.29	-69.82	429.66	435.29	435.29	99.23	.90
2769.00	20.60	98.70	2705.33	-74.38	461.72	467.67	467.67	99.15	.72
2860.00	20.20	99.80	2790.63	-79.48	493.03	499.39	499.39	99.16	.61
2952.00	20.00	99.40	2877.02	-84.75	524.20	531.01	531.01	99.18	.26
3044.00	20.10	98.00	2963.45	-89.52	555.38	562.55	562.55	99.16	.53
3135.00	21.20	97.40	3048.60	-93.82	587.18	594.63	594.63	99.08	1.23
3226.00	21.40	97.40	3133.38	-98.08	619.96	627.67	627.67	98.99	.22
3317.00	21.30	98.20	3218.14	-102.57	652.78	660.79	660.79	98.93	.34
3409.00	20.90	100.30	3303.97	-107.89	685.47	693.90	693.91	98.94	.93
3500.00	20.80	100.00	3389.01	-113.60	717.35	726.29	726.29	99.00	.16
3591.00	20.00	97.20	3474.31	-118.35	748.70	758.00	758.00	98.98	1.39
3683.00	19.60	97.70	3560.87	-122.39	779.60	789.15	789.15	98.92	.47
3774.00	19.60	98.70	3646.59	-126.75	809.82	819.67	819.67	98.90	.37
3865.00	19.60	99.50	3732.32	-131.57	839.96	850.19	850.20	98.90	.29
3957.00	20.10	100.20	3818.85	-136.92	870.74	881.43	881.43	98.94	.60
4048.00	20.40	101.20	3904.23	-142.77	901.68	912.91	912.92	99.00	.50
4140.00	19.40	99.40	3990.74	-148.38	932.49	944.22	944.22	99.04	1.27
4231.00	18.60	98.50	4076.78	-152.99	961.75	973.84	973.84	99.04	.94
4322.00	16.60	98.30	4163.51	-157.03	988.97	1001.36	1001.36	99.02	2.20
4414.00	16.20	99.50	4251.77	-161.03	1014.63	1027.33	1027.33	99.02	.57

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
4505.00	15.60	99.80	4339.29	-165.21	1039.21	1052.26	1052.26	99.03	.67
4597.00	14.30	100.30	4428.17	-169.35	1062.58	1075.99	1075.99	99.06	1.42
4688.00	12.30	102.90	4516.73	-173.52	1083.09	1096.90	1096.90	99.10	2.29
4780.00	11.20	99.20	4606.80	-177.14	1101.46	1115.61	1115.61	99.14	1.45
4871.00	9.70	100.30	4696.29	-179.92	1117.73	1132.11	1132.12	99.14	1.66
4962.00	8.10	100.70	4786.19	-182.48	1131.57	1146.19	1146.19	99.16	1.76
5053.00	6.70	99.80	4876.43	-184.57	1143.10	1157.91	1157.91	99.17	1.54
5145.00	5.40	101.50	4967.92	-186.35	1152.63	1167.60	1167.60	99.18	1.43
5236.00	4.30	83.40	5058.59	-186.81	1160.22	1175.16	1175.16	99.15	2.06
5327.00	3.20	80.30	5149.40	-185.99	1166.11	1180.85	1180.85	99.06	1.23
5418.00	2.50	71.70	5240.29	-184.94	1170.50	1185.02	1185.02	98.98	.90
5510.00	3.40	97.20	5332.17	-184.65	1175.11	1189.52	1189.53	98.93	1.71
5601.00	4.20	98.50	5422.97	-185.48	1181.08	1195.55	1195.56	98.93	.88
5692.00	5.50	90.70	5513.64	-186.03	1188.74	1203.20	1203.21	98.89	1.60
5784.00	5.70	93.80	5605.20	-186.39	1197.71	1212.11	1212.12	98.85	.39
5875.00	4.80	96.40	5695.82	-187.11	1206.00	1220.41	1220.43	98.82	1.02
5966.00	4.10	102.50	5786.54	-188.24	1212.96	1227.47	1227.48	98.82	.93
Final Survey									
6058.00	3.30	112.80	5878.35	-189.98	1218.61	1233.32	1233.33	98.86	1.13
Project to bit									
6125.00	3.30	112.80	5945.24	-191.47	1222.17	1237.07	1237.08	98.90	.00

Declination: 11.07

